### PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	PCT
To: FLEHR HOHBACH TEST ALBRITTON & HERBERT LLP Attn. Silva, Robin M.	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION
4 Embarcadero Center, Suite 3400 San Francisco, CA 94111-4187 UNITED STATES OF AMERICA	(PCT Rule 44.1)
	Date of mailing (day/month/year) 06/09/2001
Applicant's or agent's file reference FP70157/RMS/RMK/SRN	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/US 00/33497	International filing date (day/month/year) 11/12/2000
Applicant	
MOTOROLA, INC.	
1. X The applicant is hereby notified that the International Search Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claim	
When? The time limit for filing such amendments is norma International Search Report; however, for more de	ully 2 months from the date of transmittal of the tails, see the notes on the accompanying sheet.
Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41–22) 740.14.35	T + 4015 + 1
For more detailed instructions, see the notes on the acco	mpa <b>Review</b> :Foreign Refs (U.S.)
2. The applicant is hereby notified that no International Search Article 17(2)(a) to that effect is transmitted herewith.	h Report will be established and that the declaration under
3. With regard to the protest against payment of (an) addition	
the protest together with the decision thereon has been applicant's request to forward the texts of both the pro-	en transmitted to the International Bureau together with the otest and the decision thereon to the designated Offices.
no decision has been made yet on the protest; the ap	plicant will be notified as soon as a decision is made.
4. Further action(s): The applicant is reminded of the following:	the latest the latest three lat
Shortly after 18 months from the priority date, the international a lf the applicant wishes to avoid or postpone publication, a notic priority claim, must reach the International Bureau as provided completion of the technical preparations for international public	t in Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, before the cation.
Within 19 months from the priority date, a demand for internatio wishes to postpone the entry into the national phase until 30 m	ionths from the priority date (in some Onices even later).
Within 20 months from the priority date, the applicant must perform before all designated Offices which have not been elected in the priority date or could not be elected because they are not bour	ne demand of in a later election within 19 months from the
Name and mailing address of the International Searching Authority	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2  NL-2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016	Henriëtte Huysing-Solles

## IN I ERNATIONAL SEAROR REPORT

Information on patent family members

PCT/US 00/33497

	11110111	nation on passes		101/00	
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#### NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

# INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

#### What documents must/may accompany the amendments?

#### Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

### NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

#### The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]: Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
  "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
  "Claims 1 to 6 and 14 unchanged." \*Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged.\*
- [Where various kinds of amendments are made]: Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added.

#### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

# It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1).

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

# Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

# Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

# PATENT COOPERATION TREATY

# **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

		(PCT Article 18 and Hules 43 and 44)	
	nt's file reference	FOR FURTHER see Notification (Form PCT/ISA/2	of Transmittal of International Search Report 220) as well as, where applicable, item 5 below.
P70157/RMS		International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
ternational appli	cation No.		09/12/1999
CT/US 00/	33497	11/12/2000	03/12/1777
pplicant			
IOTOROLA,	INC.		
This Internation according to Ar	al Search Report has bee ticle 18. A copy is being tr	n prepared by this International Searching Ac ansmitted to the International Bureau.	uthority and is transmitted to the applicant
This Internation	nal Search Report consist It is also accompanied b	s of a total of4 sheets.  y a copy of each prior art document cited in the	nis report.
1. Basis of th	ne report	to be a set that	posic of the international application in the
a. With re langua	ice in which it was illed, d	e international search was carried out on the l nless otherwise indicated under this item.	
П	the international search	was carried out on the basis of a translation o	of the international application furnished to this
b. With re	egard to any <b>nucleotide</b> a arried out on the basis of	and/or amino acid sequence disclosed in the	e international application, the international search
was ca	contained in the interna	tional application in written form.	
片	filed together with the ir	iternational application in computer readable	form.
岗	furnished subsequently	to this Authority in written form.	
岗		to this Authority in computer readble form.	
X	the statement that the	subsequently furnished written sequence listing	ng does not go beyond the disclosure in the
X	the statement that the furnished	nformation recorded in computer readable for	rm is identical to the written sequence listing has been
2.	Certain claims were t	ound unsearchable (See Box I).	
3.	Unity of invention is		
4. With reg	ard to the <b>title</b> ,	, , , , , , , , , , , , , , , , , , ,	
X	the text is approved a	s submitted by the applicant.	
	the text has been esta	blished by this Authority to read as follows:	
5. With reg	gard to the abstract,	and by the applicant	
	the text is approved a the text has been est within one month from	is submitted by the applicant. ablished, according to Rule 38.2(b), by this A n the date of mailing of this international sear	uthority as it appears in Box III. The applicant may, ch report, submit comments to this Authority.
6. The figu	ure of the <b>drawings</b> to be	published with the abstract is Figure No.	None of the figures.
	as suggested by the		<u> </u>
	because the applica	nt failed to suggest a figure.	
	•	etter characterizes the invention.	

International Application No PCT/US 00/33497

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12Q1/68 G01N27/00

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC  $\,\,\,7\,\,\,\,\,\,$  C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, MEDLINE, CHEM ABS Data, EMBASE, BIOSIS

DOCUME	NTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
tegory °	Citation of document, with indication, where appropriate, of the relevant passages	
	(NO DO 18242 A (MOTOROLA INC)	1,5-7
	√WO 99 18242 A (MOTOROLA INC) 15 April 1999 (1999-04-15)	2-4
,	the whole document	
X	WO 99 57319 A (YU CHANGYUN ; BAMDAD CYNTHIA (US); CLINICAL MICRO SENSORS INC (US))	5,6
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^	\(\(\mathbf{N}\)\)) 24 June 198/ (198/-00-24)	1-4,7
Υ	the whole document	Í
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Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents:  'A' document defining the general state of the art which is not considered to be of particular relevance 'I' earlier document but published on or after the international tiling date 'I' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'I' document referring to an oral disclosure, use, exhibition or other means 'I' document published prior to the international filing date but later than the priority date claimed	<ul> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>
31 August 2001	06/09/2001
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL - 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016	Hagenmaier, S

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		PCT/US 00/3349/
Continue	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
tegory °	Citation of document, with indication, where appropriate, of the relevant passages	Melevani to claim 140.
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ļ	3 26 October 1999 (1999–10–20)	1-4,7
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	WO 99 15893 A (HOPPE HANS ULRICH ;MICULKA CHRISTIAN (DE); WINDHAB NORBERT (DE); A)	3,0
	1 1 April 1999 (1999-04-01)	1-4,7
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	BEATTIE ET AL: "Genosensor technology" CLINICAL CHEMISTRY, AMERICAN ASSOCIATION FOR CLINICAL CHEMISTRY. WINSTON, US,	
	vol. 39, no. 4, 18 November 1993 (1993-11-18), pages 719-722, XP002130664	
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v	MASSACH) 26 May 1993 (1993-05-26) the whole document	1-4,6,7
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Y	the whole document	1-4,6,7
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Y	WO 96 06946 A (IGEN INC) March 1996 (1996-03-07) the whole document	2–4
Y	WO 98 12539 A (MESO SCALE TECHNOLOGIES	2-4
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Y	DICESARE J ET AL: "A HIGH-SENSITIVITY ELECTROCHEMILUMINESCENCE- BASED DETECTION SYSTEM FOR AUTOMATED PCR PRODUCT	2-4
	BIOTECHNIQUES, EATON PUBLISHING, NATION, US, Vol. 15 no. 1. 1 July 1993 (1993-07-01),	
	pages 152-157, XP000385835 ISSN: 0736-6205 the whole document	
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	ion) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Rel	evant to claim No.
Y	US 5 770 721 A (ERSHOV GENNADY MOISEEVICH ET AL) 23 June 1998 (1998-06-23) the whole document		1,7
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